

TMDL Synopsis

1. 303(d) Listed Waterbody Information:

State: Kentucky

8-Digit HUC: 05100204

Major River Basin: Kentucky River

Counties: Powell, Menifee

Waterbody (GNIS#)	River Mile	Listing Year	Use Impairment(s)	Support Status	Priority	Pollutant
Cane Creek of Red River (511187)	0.0 to 3.1	2002	Primary Contact Recreation (Swimming)	Non-Support	First Priority	Pathogens

In addition, the following stream segments were assessed as impaired using data collected for this TMDL.

Waterbody (GNIS#)	River Mile	Listing Year	Use Impairment(s)	Support Status	Priority**	Pollutant
Lower Cane Creek of Cane Creek (513680)	0.0 to 4.1	*	Primary Contact Recreation (Swimming)	Non-Support	First Priority	Pathogens
Middle Fork of Right Fork Cane Creek (513936)	0.0 to 2.8	*	Primary Contact Recreation (Swimming)	Non-Support	First Priority	Pathogens
Right Fork Cane Creek of Cane Creek (514935)	2.2 to 5.2	*	Primary Contact Recreation (Swimming)	Partial Support	Second Priority	Pathogens

* These stream segments are newly assessed as impaired and the public notice requirement for listing these segments is addressed by the public participation requirement of the TMDL process. The listing year is therefore 2008, which is the year of the next Integrated Report to Congress on Water Quality in Kentucky. However, these segments will not appear in Category 5A (which are stream segments requiring TMDLs) in the 2008 report but in Category 4A (which are stream segments with approved TMDLs).

** Although these segments will not be listed in Category 5A of the 2008 303(d) report (which is Volume II of the Integrated Report), they meet the criteria for the priority assigned.

2. Pollutant Allocations:

Location		Existing Conditions		TMDL = WLA + LA + MOS			TMDL Target	Percent Reduction Needed to Achieve TMDL Target		
Station Name	Stream (River Miles)	Load, billion colonies/day		TMDL (WQC as a Load), billion colonies/day	Final Allocation, billion colonies/day		MOS, ² billion colonies/day	TMDL Target Load (WQC minus MOS), billion colonies/day	Percent Reduction, billion colonies/day	
		Wasteload	Load		WLA ¹	LA			WLA	LA
5	Right Fork Cane Creek of Cane Creek (2.2 to 5.2)	0	50.31	10.06	0	9.06	1.00	9.06	0%	82.0%
4	Middle Fork of Right Fork Cane Creek (0.0 to 2.8)	0	68.69	9.51	0	8.56	0.95	8.56	0%	87.5%
3	Lower Cane Creek of Cane Creek (0.0 to 4.1)	0	65.79	5.64	0	5.08	0.57	5.07	0%	92.3%
1	Cane Creek of Red River (0.0 to 3.1)	0	39.24	4.22	0	3.80	0.42	3.80	0%	90.3%

¹Any future permitted point source must meet permit limits based on the Water Quality Standards in 401 KAR 5:031, and must not cause or contribute to an existing impairment.

²An explicit MOS of 10% was used, along with an implicit MOS from using conservative methods to calculate existing conditions.